

## Storm Data and Unusual Weather Phenomena

June 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW MEXICO Southeast

Eddy County 6 W Loco Hills	02	1505MST	0	0	Hail (0.75)
Storm developed in west-central Eddy County along the dryline. Moved to the northeast and dissipated in Lea County.					
Eddy County 6 W Loco Hills	02	1540MST	0	0	Hail (0.75)
Cell developed on flank of previous storm.					
Eddy County 1 W Loco Hills	02	1550MST	0	0	Hail (1.00)
Eddy County 1 W Loco Hills	02	1550MST	0	0	Thunderstorm Wind (G52)
Eddy County 6 E Loco Hills	02	1609MST	0	0	Hail (2.75)
Lea County 4 SE Maljamar	02	1621MST	0	0	Hail (0.88)
Lea County 4 S Maljamar	02	1625MST	0	0	Hail (2.00)
Lea County 4 SE Maljamar	02	1633MST	0	0	Hail (1.75)
Lea County Lovington	02	1700MST	0	0	Hail (1.00)

As the storms approached Lovington they formed into a multicell line.

On this afternoon the dryline pulled a short distance away from the mountains and with favorable convergence was able to act as the focus for deep convection in Southeast New Mexico. Winds in the Pecos Valley were sustained at about 15 knots from about 130-140 degree into the dryline. Temperatures were in the lower 90s with dewpoints in the lower to mid 60s.

Lea County 12 SW Buckeye	02	1710MST	0	0	Hail (1.25)
This storm formed on the outflow boundary to the south of the developing line that was moving through Lovington.					
Eddy County 2 S Carlsbad	07	1723MST	0	0	Hail (0.75)
Cells that developed along the Delaware and Guadalupe Mountains in Texas moved to the east and kept developing farther and farther north into New Mexico. This cell briefly produced dime size hail. Storms farther south in Texas were moving to the SSE.					
Eddy County 4 S Artesia	08	1651MST 1700MST	0	0	Hail (2.00)
Hail began 3/4" diameter and grew to 2". This cell was on the south side of a developing line of cells.					
Lea County 4 SE Maljamar	08	1844MST	0	0	Hail (0.75)
This cell was the most intense of a line of cells passing through the area. Storms developed on the Sacramento Mountains and moved eastward into Eddy County. The organization of the storms was aided by an upper level disturbance moving to the east. The organized lift associated with the disturbance appeared to help storms form into a line. By the time the storms crossed the Eddy/Lea County line, an almost continuous line existed southward into Southwest Texas.					
Lea County 7 W Jal	11	1532MST	0	0	Hail (1.75)
The left-split cell of a storm that formed over Loving County, TX, moved to the northeast into southern Lea County, NM. The this single cell storm dropped its hail on State Highway 128. The storm continued to the northeast, just missing Eunice, then dropped more hail in the northwest corner of Andrews County, TX.					
Lea County Monument	19	1500MST 1700MST	0	0	Flash Flood

Flash flooding occurred on State Highway 8 near Monument. The initial cell that rained on the area formed along the Texas state line and moved to the NNW. Near Monument this cell merged with other cells to produce torrential rains for a short period.

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## NEW MEXICO, Southeast

Eddy County South Portion	20 21	2200MST 0200MST			0	0	20K	Flash Flood
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A very tropical air mass and a shear axis in the mid levels of the atmosphere, plus slow movements of storms all added up to give Eddy County, NM excessive rains on the night of the 20th. Nine county roads were closed at one time or another, plus State Highway 128 was closed for a short time in the early morning. Several cars were stranded in water crossings, and asphalt was washed away at some crossings as well. Water flowed 14 feet deep on Higby Hill Road.

Eddy County Carlsbad	21	2000MST 2230MST			0	0		Flash Flood
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An upper level disturbance interacted with copious amounts of Pacific moisture from Hurricane Adrian, located south of Baja Mexico, to produce thunderstorms that dropped 4 to 5 inches of rain over southern Eddy county. Flash flooding occurred with over one foot of water reported to cover portions of Dark Canyon Road.

Eddy County 1 W Artesia	25	1540MST			0	0	2K	Thunderstorm Wind
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Microburst winds from a storm moving to the southeast blew part of a roof off a trailer.

## TEXAS, West

Winkler County (Wink) Winkler Co Arpt	04	1655CST			0	0		Hail (1.25)
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Winkler County Kermit	04	1700CST			0	0		Hail (1.00)
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This storm developed on the dryline near the Loving/Winkler County line. It moved to the east following State Highway 302. The storm weakened after leaving Kermit.

Pecos County 15 E Ft Stockton	05	1530CST			0	0		Hail (1.75)
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Pecos County 2 N Bakersfield	05	1610CST			0	0		Hail (1.75)
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Pecos County 5 NE Bakersfield	05	1618CST			0	0		Hail (1.75)
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Pecos County 5 E Bakersfield	05	1704CST			0	0		Hail (1.75)
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Pecos County 15 SE Bakersfield	05	1902CST			0	0		Hail (0.75)
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Pecos County Sheffield	05	2000CST 2010CST			0	0	1.8M	Hail (4.00)
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Pecos County Sheffield	05	2000CST 2010CST			0	0		Thunderstorm Wind (G52)
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This supercell storm was active for over 4 hours in Pecos County alone while traveling parallel to I-10. The intense rotating updraft collapsed over Sheffield sending grapefruit hailstones in 60+ mph outflow winds. Almost every north and west facing windows were broken in town. The hailstones also knocked holes in wood siding of some houses. Power lines were knocked down, and power was out for about 6 hours.

Terrell County Sanderson	06	1635CST			0	0		Hail (1.75)
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Storm Developed in eastern Brewster County and moved to the north then merged with a multicell line.

Winkler County 9 W Kermit	06	1655CST 1703CST			0	0		Hail (1.75)
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Left-split storm that moved north and quickly became multicell.

Andrews County 10 N Andrews	06	1810CST			0	0		Hail (0.75)
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Multicell storm developed along an outflow boundary and was briefly severe.

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<b><u>TEXAS, West</u></b>								
Brewster County 23 N Panther Junction	06	1830CST			0	0	1K	Hail (1.25)
								Supercell storm moved to the southeast across Brewster County, mostly in open country. The hail hit the Persimmon Gap Visitor's Center at Big Bend National Park where it broke windows and dented an air conditioning hood. The storm continued to the Rio Grande where 1/2 inch hail covered the ground.
Jeff Davis County 16 NW Ft Davis	07	1535CST			0	0		Hail (1.00)
								Strong cell amongst many that developed in the Davis Mountains.
Brewster County Alpine	07	1542CST 1610CST			0	0		Hail (1.00)
								Cell developed on south flank of storms in Davis Mountains.
Brewster County 7 S Alpine	07	1625CST			0	0		Hail (0.75)
								The Alpine cell moved slowly south.
Brewster County 25 S Alpine	07	1900CST 2100CST			0	0		Flash Flood
								The cluster from northern Brewster and Presidio Counties continued to move slowly south-southeast into the central and southern parts of Brewster County. Flash flooding was reported at the Elephant Mountains Wildlife Management Area.
Brewster County 11 NE Study Butte	07	1959CST			0	0		Hail (0.75)
								Strong cell in a large area of precipitation that briefly produced dime-size hail.
								Storms developed in the mountainous areas and generally moved to the south. A large area of precipitation developed in the Rio Grande drainage basin and caused the river to rise to near bankfull stage north of Presidio.
Reeves County Balmorhea	08	2015MST 2300MST			0	0		Flash Flood
								Rain from a series of storms added to cause minor flooding in Balmorhea.
								An upper level disturbance helped to organize storms over southwest Texas, but before the disturbance passed through, several storms moved over southern Reeves County. The storms eventually formed into a line that stretched north into eastern New Mexico.
Andrews County 10 S Andrews	09	1950CST 2001CST			0	0		Hail (1.00)
Andrews County 2 SE Andrews	09	1958CST 2008CST			0	0		Hail (1.00)
Andrews County Andrews Co Arprt	09	2012CST 2020CST			0	0		Hail (1.00)
Midland County Midland	09	2225CST 2355CST			0	0		Flash Flood
								Flooding over the curb was reported on Midkiff at I-20.
								Afternoon thunderstorms developed late in the day and formed a line from Fort Davis to near Monahans, and slowly moved north. The 00z upper air sounding at Midland indicated the atmosphere was very unstable. The Permian Basin was in the front left quadrant of the jet stream with an approaching weak upper level disturbance, but the atmosphere lacked the wind shear necessary for supercell storm development. By evening, some of the storms had become severe producing several one inch hail reports and one flash flood event.
Winkler County 4 NW Wink	10	1818CST			0	0		Hail (0.75)
								An intense single cell storm that moved eastward across the county but weakened quickly before crossing into Ector County.
Mitchell County Westbrook	10	2025CST			0	0		Hail (2.75)
								Baseball size hail fell across western Mitchell County
Scurry County Snyder	10	2310CST 2325CST			0	0	4M	Hail (1.75)

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<b>TEXAS, West</b>							
Hail fell from the southern end of a multicell cluster moving east across Scurry County. Numerous cars and roofs were damaged from 24th Street to 44th Street.							
Scurry County 12 N Snyder	10	2310CST			0 0	1K	Thunderstorm Wind -
Scurry County 3 SW Hermleigh	10	2330CST			0 0	1K	Thunderstorm Wind
Scurry County Pyrton	10	2342CST			0 0	6K	Thunderstorm Wind
Widely scattered thunderstorms developed over Pecos, Reeves, Winkler, and Howard Counties in the late afternoon, but by 830 pm CDT all storms were dying rapidly. However, strong to severe storms in the Texas South Plains moved southward into Scurry County by 1030 pm. This multicell cluster became disorganized, but put out an outflow boundary that helped a new cluster to form. This cluster moved east and with localized downbursts that took down some utility poles to the north and southeast of Snyder. After moving east of Snyder the cluster became outflow dominated and the hail threat diminished, whereas the isolated damaging winds continued.							
Reeves County 2 E Saragosa	11	1423CST			0 0		Hail (1.00)
Storm formed in the Davis Mountains and moved to the east.							
Reeves County 7 S Saragosa	11	1535CST 1555CST			0 0		Hail (1.50)
Storm formed in the Davis Moutains as well and moved over the same area.							
Reeves County South Portion	11	1620CST 1800CST			0 0		Flash Flood
The two storms that traveled over the same areas dumped copious amounts of rainfall with large areas of lowland flooding reported along I-10.							
Pecos County 26 SW Ft Stockton	11	1915CST			0 0		Hail (0.75)
Storm proceeded to move to the southeast.							
Pecos County 40 S Ft Stockton	11	1952CST			0 0		Hail (1.75)
Last report on this storm. Several thunderstorm cells formed in the Davis Mountains with the ones that moved to the east becoming strong to severe.							
Andrews County 17 NW Frankel City	11	1725CST			0 0		Hail (2.25)
The left-split cell of a storm that formed over Loving County, TX, moved to the northeast into southern Lea County, NM. The storm continued to the northeast, just missing Eunice, then dropped more hail in the northwest corner of Andrews County, TX. The storm quickly weakened after moving into Gaines County.							
Borden County 13 NW Gail	11	1945CST			0 0	1K	Thunderstorm Wind
Utility lines knocked down in the Mesquite community.							
Borden County North Portion	11	1955CST 2200CST			0 0		Flash Flood
Roads were covered with flooding waters including a foot of water running across FM 1054.							
Scurry County Fluvanna	11	2000CST			0 0		Hail (0.75)
Scurry County Fluvanna	11	2000CST			0 0	30K	Thunderstorm Wind
Rear-flank downdraft winds blew a car off the road and blew down 40 utility poles near Fluvanna. Five Hundred customers lost power with some power outages lasting until 5:30 Sunday morning (over 32 hours).							
Borden County 2 E Lake J B Thomas	11	2015CST			0 0	30K	Thunderstorm Wind
Mitchell County 1 N Cuthbert	11	2056CST	0.1	10	0 0		Tornado (F0)
Brief tornado touchdown							
Mitchell County 2 W Colorado City	11	2114CST			0 0		Hail (4.50)
Hail up to the size of softballs was reported just west of Colorado City							
Mitchell County Colorado City	11	2120CST			0 0		Hail (2.75)
Hail up to the size of baseballs broke windows and dented vehicles throughout the community. Damage was extensive And widespread, with losses reported at nearly one-half million dollars.							

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## TEXAS, West

Scattered thunderstorm wind damage occurred near Lake Thomas that included roofs blown off two carports and a lake pumphouse, a travel trailer overturned, and 15 utility poles broken. The winds were associated with the RFD winds that hit the Mesquite area.

### Scurry County

Countywide	11	2030CST			1	0	50K	Flash Flood
	12	1400CST						

A major flood and flash flood event occurred on the Friday night, June 11 and into Saturday afternoon June 12. Four separate thunderstorm cells/complexes moved over Scurry County between 9 pm and 2:15 am CDT Friday night with the first initial flooding report at 9:30pm west of Snyder on Highway 180. Rain totals of 5-7 inches were common across northern Scurry County, and heavy rains from the night of the 10th contributed to the flooding as well.

At about 1:45 am, the Department of Public Safety reported water starting to flow over U.S. 84 between Snyder and Dermott. One more bout of heavy rain crossed over this area for the next half hour, then the storms moved off to the east.

Department of Transportation personnel were waving at people attempting to keep them from entering the flood waters, but the drivers were not heeding this warning. A 48-year-old woman from Dallas, TX and her parents were in her sedan driving to the northwest on U.S. Highway 84 between Snyder and Dermott. At 2:47 am they entered the flooded waters 8.1 miles northwest of Snyder. The rushing waters were 2-3 feet deep running across the highway from Northeast to southwest. The car was pushed from the left lane into the center median that separates the northbound and southbound traffic of this four lane highway. The car disappeared into the waters in the median. The parents of the woman were rescued by a man in a following vehicle, but the woman could not be saved. Waters continued to rise for a short while later. Flooding on the highway receded about 5 am. This highway was closed from Roscoe to Post until 11:15 am.

Later in the morning more showers developed in Scurry County that caused additional minor flooding and thunderstorms developed in the afternoon in Dawson and Borden Counties that moved across the southern parts of Scurry County as well. Flash flooding was popping up for an extended period of time in several sections of the county. Deep Creek was above flood stage in the city of Snyder, cresting at 15.5 feet on Saturday morning, 4.5 feet above flood stage. One business and one house were flooded by rising waters. The running water also broke apart some asphalt on 26th St., and some bridges in town were flooded.

F48VE

### Scurry County 8 W Snyder

	11	2030CST			0	0		Hail (0.75)
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The Fiuanna storm moved to the southeast.

### Scurry County 8 SW Snyder

	11	2105CST			0	0		Hail (1.75)
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### Scurry County 4 S Snyder

	11	2110CST			0	0		Hail (0.75)
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### Scurry County 5 SE Snyder

	11	2129CST			0	0		Hail (1.75)
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### Scurry County Dunn

	11	2145CST			0	0	600K	Hail (2.75)
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Hail up to baseball size pounded the countryside near Dunn. Cars and houses suffered extensive damage in the area. Holes were knocked in vinyl siding.

The events of this day ranged from a couple of small events in the western and southwestern parts of the region to one huge event in the northeastern sections (mostly in Scurry County). A storm that developed on the Texas South Plains became a supercell in Lynn County, TX (see Lubbock section of this publication) after crossing a surface boundary that stretched from Big Spring to west of Tahoka. This monstrous storm turned right and headed into northwestern Borden County and eventually into Scurry County. As it entered Borden County it collided with smaller thunderstorm cells resulting in less organization over all. The structure still held together enough to cause large hail near the updraft and damaging winds on the rear-flank downdraft.

Other cells formed on flanks of this storm and on the original boundary allowing parts of Scurry County to get pounded several times overnight leading to Flash Flooding and River Flooding. Benefits of the heavy rains were that Lake J.B. Thomas rose 15 feet during the event, from 4% capacity to 20% capacity. The last time the lake was this high was in 1994.

### Mitchell County 7 E Colorado City

	12	0125CST			0	0	0.50K	Thunderstorm Wind
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Power lines were knocked down across the eastern sections of Mitchell County.

### Mitchell County Countywide

	12	0720CST 1030CST			0	0		Flash Flood
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slow moving thunderstorms produced excessive rainfall across most of Mitchell County. Colorado City took the worst of the rainfall where many roads became flooded and impassable.

### North Portion

	12	1700CST 1900CST			0	0		Flash Flood
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Flash flooding rains washed out portions of FM 2401 and FM 2594.

### Upton County 13 N Rankin

	12	1700CST			0	0		Hail (0.75)
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Multicell storm that formed along an old outflow boundary.

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<b>TEXAS, West</b>									
Upton County									
13 N Rankin	12	1725CST			0	0			Thunderstorm Wind (G61)
			Outflow winds from same storm.						
Pecos County									
Southwest Portion	14	1100CST			0	0			Flash Flood
		1500CST							
			After several heavy rain events in the Hovey area, heavy rains once again pounded the Hovey area causing flash flooding over an extensive area west of U.S. Highway 67 in Pecos County. These waters eventually flowed into Cuyanosa Draw causing it to flood.						
TXZ058-075			Reeves County And Upper Trans Pecos - Pecos						
	14	1500CST			0	0			Flood
	15	1600CST							
			The flooding waters from the Hovey area worked their way down Cuyanosa Draw toward the Pecos River. One rain report from over the weekend was 10.65" of rain measured 1 mile northwest of Hovey. By 630 pm CDT the flow under the I-10 bridge had risen to an estimated 15 feet in depth, while at the U.S. 285 crossing the normal 2 foot depth was occurring. By 730 pm the Highway 285 crossing was 6 feet deep and by 930 pm was flooding the highway with one foot of water. This flooding continued until approximately 230 am. The width of this flooding across the highway was about 1500-2000 feet.						
			This flood wave worked its way to the north toward the Pecos River and caused flash flooding on FM 1450 and FM 1776.						
			When the flood wave crested along FM 1450 there was flooding for a 5-6 mile stretch. A few miles north of FM 1450 the waters ran into the Pecos River.						
Pecos County									
Northwest Portion	15	0900CST			0	0			Flash Flood
		1300CST							
Reeves County									
East Portion	15	0900CST			0	0			Flash Flood
		1300CST							
			Flash flooding occurred on FM 1776 and FM 1450 with waters rising to 2.5 feet deep in several places. Eventually the flooding became more generalized as the Cuyanosa flood wave began to crest.						
Ward County									
8 W Pyote	18	1945CST			0	0			Hail (1.00)
			A hailstorm that sat over I-20 in Ward County coated the highway with ice. An 18-wheeler truck overturned on the slick highway near Mile Marker 58.						
Howard County									
Big Spring	19	1655CST			0	0	1K		Thunderstorm Wind
			Outflow winds damaged the roof of a house.						
Howard County									
Coahoma	19	1704CST			0	0	1K		Thunderstorm Wind
			Outflow winds knocked down at least one utility pole.						
			A W-E oriented multicell cluster moved north into the area where brief downbursts caused minor damage.						
Ector County									
North Portion	19	1930CST			0	0			Flash Flood
		2100CST							
			Heavy rains covered most of northern and western Ector County. Four feet of water ran across Highway 158 between Goldsmith and Gardendale. Rainfall estimates were in the 2-3 inch range.						
Martin County									
Central Portion	19	1945CST			0	0			Flash Flood
		2200CST							
Martin County									
North Portion	19	2000CST			0	0			Flash Flood
		2300CST							
			These two areas in Martin County both started as multicell clusters, but eventually became part of the MCS that engulfed Parts of the Permian Basin. FM 829 near Grady became impassable. Water covered State Highway 349 for a 4-mile stretch just south of the Dawson County line. Both location totalled about 3-4 inches of rain.						
Midland County									
2 N Midland	19	2045CST			0	0	20K		Flash Flood
		2300CST							

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## TEXAS, West

The worst flooding in years to strike Midland occurred on this evening as heavy rains swelled Scharbauer Draw out of its banks and into busy roadways. Numerous vehicles were stalled and several people were rescued from the high, fast water. Fortunately no injuries resulted, and almost all of the damage was water damage to vehicles. Some vehicles were almost completely submerged.

A diffluent flow in the upper levels, a very tropical air mass in the lower and mid levels, and weak mid-level steering winds all contributed for a flash flood evening in the Permian Basin. Early convection started as several pockets of multicell storms, but later all of the storms formed into an MCS that marched slowly to the east. A cyclonic circulation developed within the MCS that allowed the southern convection to move fairly quickly to the east, whereas in the comma head of this rotation little eastward progress was made. In parts of Martin County the stratiform precipitation was continuous for over 4 hours.

This day saw an air mass rich in tropical moisture with a weak cap. Deep convection started in the late morning. Storms were generally outflow dominated in the afternoon and sent out numerous outflow boundaries. Some of these boundaries may have served as a focus for the organized development later in the evening.

Reeves County  
Orla

22	0001CST 0300CST			0	0			Flash Flood
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An upper level disturbance interacted with copious amounts of Pacific moisture from Hurricane Adrian, located south of Baja Mexico, to produce late evening thunderstorms in Southeast New Mexico. These storms moved south from Eddy county into Reeves county and dropped very heavy rain near Orla. Radar indicated rainfall rates of 2 inches per hour. High water was reported in Orla just after midnight CST, with a car caught in rising water at FM 652 and County road 457 twenty minutes later. The occupants were rescued.

Ector County  
Pleasant Farms

30	1655CST 1725CST			0	0			Hail (2.75)
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Towering cumulus clouds developed during the late afternoon along an outflow boundary from previous days convection. Shortly after the surface temperature reached the convective temperature, a thunderstorm exploded along this boundary. The storm moved little, and continued to drop large hail along the Ector/Crane county line for over 20 minutes. Hail reports ranged from golfball, to peach, to baseball size.